6. Compare the density of the snow at the top of the pit with the density in the middle and at the bottom. The density of new snow ranges from about 5% when the air temperature is 14 $^{\circ}$ F, to about 20% when the temperature is 32 $^{\circ}$ F. After the snow falls, its density increases due to gravitational settling, wind packing, melting and recrystallization. How did your layers compare?

Snow Water Equivalent (SWE)= Amount of water in snow	
pack or depth of water resulting if you melted all the snow	

- 1. Measure snow depth from top of your pit to bottom = _____cm
- 2. Calculate the average snow density

$$(#4a + #4b + #4c) \div 3 = _____g/_cm^3$$

3. SWE = average density (#2 above) X Snow Depth (#1 above)

SWE=	cm

15. Map/sketch the dominant vegetation types along your route.



Glacier National Park Winter Ecology Field Notes

Pack #

- (-)					
School:		Teacher	:		
Date:	Start Time: _	End	Time:		
Location (GPS coordinates or trail name):					
Weather Condition Air Temperature=		Wind Speed	=		
Wind Chill (use ch	art)= %	Cloud Cover =	=		
Other Observation	ns (snowing, rain	ning, etc) =			
Equipment Check Clipboard 8 Shovel Shovel Showel Sh	iklist (before & Pencil ing pads Chart cal Chart glass(es) rack ID Card al photo e Key d Indicator eters e	& after)	Don't forget! * Hat * Gloves * Lunch * Water		

Animal/Insect Signs

#	Sign (track, scat, browse, etc)	Location	Description (straddle, stride, other observations)
1	Scat	on trail	dry, full of gray fur, 3 small clumps, fox?
2	Track	across trail	deer - multiple animals (3), heading west from creek
3	Animal Sighting	trailhead	Pileated Woodpecker drilling on lodgepole snag.
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

Snow Observations

Surface Snow Mi 2. Temperature 3. Te	iddle of pit mperature _	Temperature 4. at ground
Example:		Your Snow Pit Profile:
Surface - icy crust		
Soft, and fluffy		
Icy	\rightrightarrows	
Medium hardness		
Loose, like sugar		
5. Snow Crystals (use class type in surface layer of sno		art to describe most dominant
2. Mass of can plus snow (r a. Top of pit =g b. Middle of pit =g	grams grams make sure no (#1)(#1)(#	s (measure with spring balance) not to pack snow) from: $(x) = \underline{\qquad} g \text{ snow mass}$ $(x+1) = \underline{\qquad} g \text{ snow mass}$ $(x+1) = \underline{\qquad} g \text{ snow mass}$
4. Density of snow = mass a. Top of pit = (#2a) / 15 b. Middle of pit = (#2b) / c. Bottom of pit = (#2c) /	7 cm ³ = 157 cm ³ =	g/cm ³
5. Convert density answer i		